

SIGNAL ISOLATING REPEATER

TX-134



Overview

The ASHE TX series of Signal Conditioners, Isolators, Transducers, Transmitters and Multipliers comprise a wide range of high quality and reliable instruments for the conversion, amplification, isolation and multiplication of analog and digital signals.

The instruments accept standard industrial process input signals such as DC/AC Voltage, DC/AC Current, 4 to 20 mA DC, RTD Pt-100 sensor, Thermocouple sensor, Frequency [Pulse], Resistance, Strain-gauge, etc. and provide buffered and isolated outputs with enhanced load driving capacity. The instruments find wide usage in single loop or distributed process measurement and control applications.

The new Series TX-134 Signal Isolating Multipliers measure an analog signal and convert the signal into four isolated analog signals of 4 to 20 mA DC [or as required]. The Output signals are linear with respect to the Input signal and each output is galvanically and optically isolated to a potential level of 1.5 KV rms for one minute.

The instruments operate on 110 or 230 Volts AC mains power supply. Optional features include higher load driving capability, digital indication facility, control relay outputs, two-wire operation with auxillary power output, etc.

The instruments are available in compact industrial grade enclosures in DIN Rail / Wall-mounting execution, or optionally in IP65 protected field mount weather-proof enclosures, or in CIMFR certified explosion-proof enclosures. Absence of any moving parts provides these instruments inherent advantages like immunity to mechanical shocks, dust, ambient temperature, humidity and corrosive atmosphere.

Features

- Optical & Galvanic Isolation between Input, Outputs & Power Supply.
- High accuracy and linearity to input signal
- Very low power consumption and heat dissipation
- High load driving capacity of retransmitted signal
- Configurable output option of current / voltage
- Short-circuit / Open-circuit protection of outputs
- Front accessible Zero and Span calibration for all channels
- Digital Indication option with/without control relay outputs
- Auxillary power for two-wire transmitters
- Rugged, industrial grade ABS enclosure
- Panel / Field / Hazardous area installation in IP65 execution
- Current limiting for I/O protection
- Customized outputs offered
- Proven record of several thousand installations
- Lifetime warranty on design and workmanship

Specifications

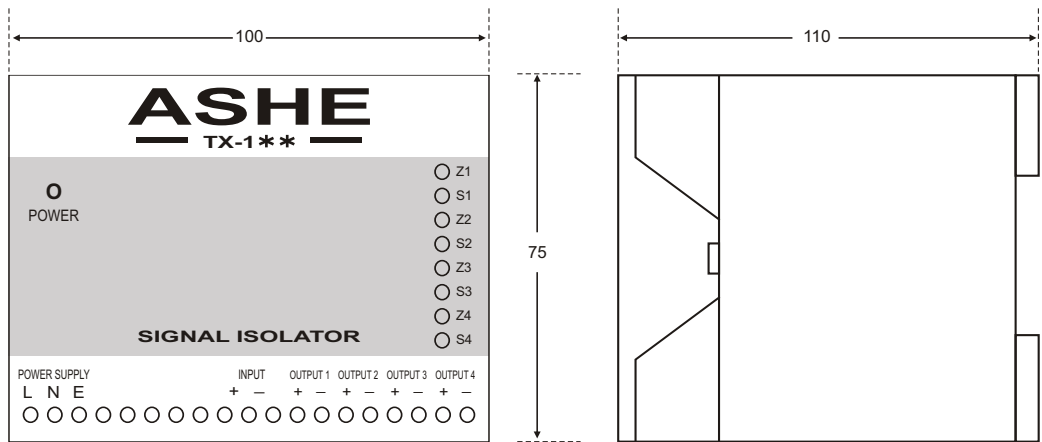
Model Type	ASHE TX-134. Analog signal Isolating Multiplier (Repeater).
Principle	Optical Isolation, Signal Conditioning and Amplification.
Input Signal	4 to 20 mA DC [or as required].
Output Signals	Four isolated and buffered outputs of 4 to 20 mA DC [or as required].
Load Driving Capacity	600 Ohms for each output.
Linearity	0.1%.
Isolation	Between Input // Outputs // Power Supply.
Isolation type	Optical and Galvanic.
Isolation level	1.5 kV rms for one minute.
Output protection	Short / Open Circuit protection.
Calibration facility	Zero and Span settings [external].
Accuracy	0.1%.
Indication	Red LED for Power On.
Power Supply	110 V AC or 230 V AC, 50 hz.
Initial warm-up time	One minute.
Dimensions	75 x 100 x 110 mm. [H x W x D].
Execution	DIN-Rail / Rear panel mounting.
Enclosure	Industrial grade ABS.
Enclosure colour	Light Grey [RAL 7035]
Weight	Approximately 0.4 Kgs.
Operating Temperature	0 to 50 °C.

SIGNAL ISOLATING REPEATER

TX-134

DIMENSIONAL DIAGRAM

Dimensions : 75 x 100 x 110 mm
Execution : DIN Rail mount.



HOW TO ORDER

SIGNAL REPEATER (four channel)

TX-134

Input (pre-specified) :
Any Analog signal or Temp / Proximity Sensor.
Output - 1 : 4 to 20 mA DC (or as required)
Output - 2 : 4 to 20 mA DC.
Output - 3 : 4 to 20 mA DC.
Output - 4 : 4 to 20 mA DC.
Isolation : Optical and Galvanic.
Power Supply : 230 V AC, 50 Hz / 24 V DC.
Dimensions : 75 x 100 x 110 mm.

Configuration and Add-on options w

1 OPTICAL AND GALVANIC ISOLATION

- ▶ Required
- ▶ Not Required

I
N

2 POWER SUPPLY

- ▶ 230 V AC (±10%), 50 Hz (±10%).
- ▶ 110 V AC (±10%), 50/60 Hz (±10%).
- ▶ 24 V DC (±10%).
- ▶ Other (to be specified).

S
H
D
Z

3 EXECUTION

- ▶ DIN Rail mounting [75 x 55 x 110 mm]
- ▶ Field mounting in Weather-proof execution (Polycarbonate enclosure, IP65 protection)
- ▶ Field mounting in Flame/Explosion-proof execution (Cast Aluminum Alloy LM6 enclosure, for Gas groups IIA, IIB)

N
W
X

4 RETRANSMISSION

- ▶ Retransmission of 0 to 10 V DC
- ▶ No Retransmission
- ▶ Other (to be specified)

V
O
Z

OUR OTHER PRODUCTS



PROCESS CONTROLLER

UNIVERSAL CONTROLLER

FLOW TOTALIZER

TEMP. SCANNER

SIGNAL ISOLATORS & TRANSDUCERS

SMPS POWER SUPPLIES

ASHE CONTROLS PRIVATE LIMITED

6/317, 318 & 319, Jogani Industrial Complex, Near ATI, Sion-Trombay Road, Sion, Mumbai - 400 022, India.
Phone / Fax : (022) 2405 1561, 2405 5791 • E-mail : sales@ashecontrols.com • Website: http://www.ashecontrols.com